

Server Functions
Function Start\_Server
Out (server features, server location)
Function Push\_Server\_Status
If server status change
Out (change in status)

FIG. 3A

Server Directory Interface
Function Register\_Server
In (server features, server location)
Modify directory to include new features
Function Update\_Register
In (change in status)
Modify directory to include status change

Modify directory to include status change Function Service\_Request In (Service Request)

Execute request as independent operation without any coupling Function *Load\_Balance* 

In (Server Directory)

If load imbalance condition 1
update server directory to redistribute load

If load imbalance condition 2
change back-up server status to primary server status

If load imbalance condition 3
change primary server status to back-up server status

FIG. 3B

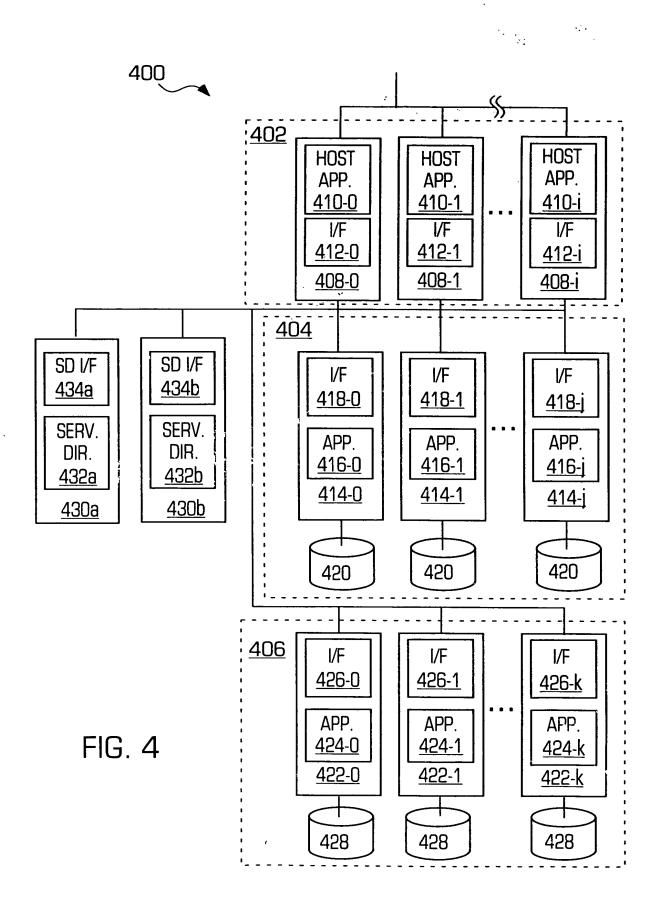
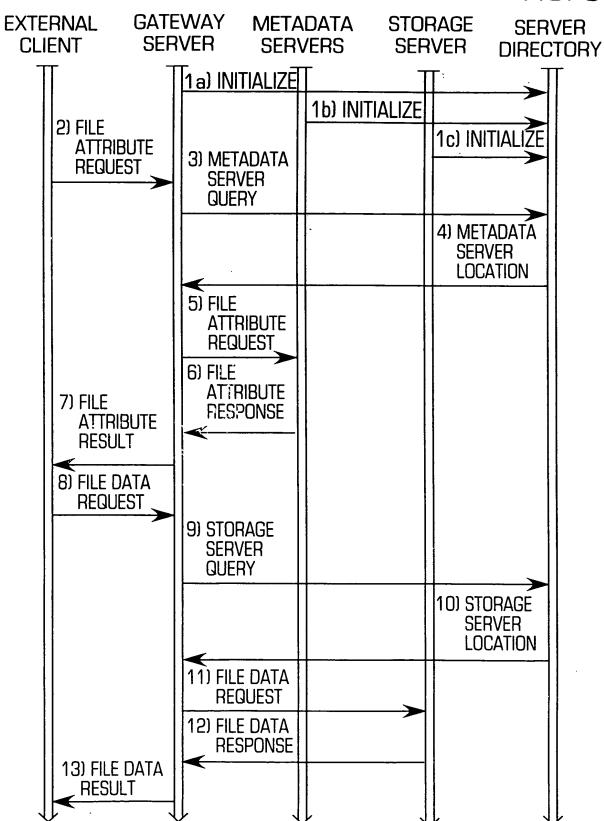


FIG. 5



Gateway\_Server Functions

Function Register\_Gateway\_Server

Out (hosted application service requirements, gateway server location)

Function Gateway\_Server\_Status

If gateway server resources out of range
Out (features that are out of range)

FIG. 6A

Metadata\_Server Functions

Function Register\_Metadata\_Server

Server Features = location, metadata range accessed, storage total, storage used

Out (Server Features)

Function *Metadata\_Server\_Status* 

If metadata server resources out of range

Out (features that are out of range)

FIG. 6B

Storage\_Server Functions

Function Register\_Storage\_Server

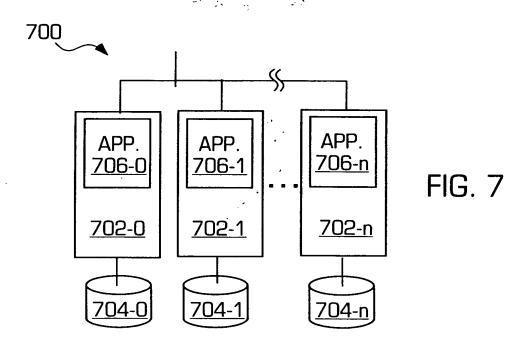
File Server Features = location, range of files accessed, storage total, storage used

Out (Storage Server Features)

Function Storage\_Server Status

If storage server values out of range

Out (features that are out of range)



Same of the

